

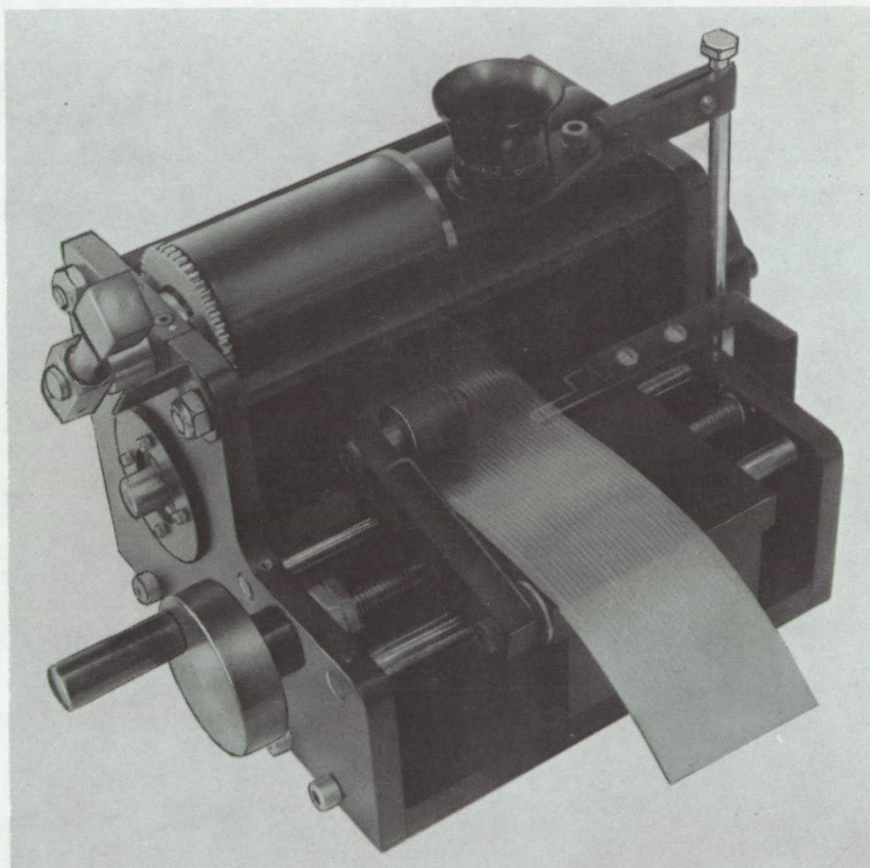
NASA TECH BRIEF

Marshall Space Flight Center



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Slitting Flat Conductor Cables with the Single Cutting Edge Slitter



The problem:

Occasionally, it is necessary to slit a length of flat conductor cable into various widths to form cable branches. This requires a small, inexpensive, bench type flat conductor cable slitter which has the capability of accurately cutting various compositions of insulation to within ± 0.05 mm (0.002 in).

The solution:

A manually operated slitter was developed (see figure) which can cut a single slit to any desired length. The

lateral position of the flat conductor cable is adjusted with the aid of an optical magnifier and a cursor glass to ensure that the slit is accurately placed between the conductors.

How it's done:

The flat conductor cable to be slit is placed under the cursor glass and the rubber guide roller. The guide roller is spring loaded and is designed to keep the cable in position during the slitting operation. The cable is placed against a guide edge of the table, and the table posi-

(continued overleaf)

tioning handwheel is rotated so that the desired location of the slit is directly under the cursor hairline. The cable is then moved forward to the cutting edge and the cutter engaging handle is pulled down toward the operator. The cutter rotation handwheel is turned, pulling the cable forward, until the desired slit length is attained. The cutter engaging handle is then lifted and the slit cable removed. The slitter is designed to cut single slits; however, multiple slits may be formed by repeating the procedure as outlined for a single slit.

Note:

Requests for further information may be directed to:

Technology Utilization Officer
Marshall Space Flight Center
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Reference: B72-10575

Patent status:

NASA has decided not to apply for a patent.

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